Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

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NEWS  1          Web Page URLs for STN Seminar Schedule - N. America
NEWS  2          "Ask CAS" for self-help around the clock
NEWS  3  SEP 01  New pricing for the Save Answers for SciFinder Wizard within
                 STN Express with Discover!
NEWS  4  OCT 28  KOREAPAT now available on STN
NEWS  5  NOV 30  PHAR reloaded with additional data
NEWS  6  DEC 01  LISA now available on STN
NEWS  7  DEC 09  12 databases to be removed from STN on December 31, 2004
NEWS  8  DEC 15  MEDLINE update schedule for December 2004
NEWS  9  DEC 17  ELCOM reloaded; updating to resume; current-awareness
                 alerts (SDIs) affected
NEWS  10 DEC 17  COMPUAB reloaded; updating to resume; current-awareness
                 alerts (SDIs) affected
NEWS  11 DEC 17  SOLIDSTATE reloaded; updating to resume; current-awareness
                 alerts (SDIs) affected
NEWS  12 DEC 17  CERAB reloaded; updating to resume; current-awareness
                 alerts (SDIs) affected
NEWS  13 DEC 17  THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
NEWS  14 DEC 30  EPFULL: New patent full text database to be available on STN
NEWS  15 DEC 30  CAPLUS - PATENT COVERAGE EXPANDED
NEWS  16 JAN 03  No connect-hour charges in EPFULL during January and
                 February 2005
NEWS  17 FEB 25  CA/CAPLUS - Russian Agency for Patents and Trademarks
                 (ROSPATENT) added to list of core patent offices covered
NEWS  18 FEB 10  STN Patent Forums to be held in March 2005
NEWS  19 FEB 16  STN User Update to be held in conjunction with the 229th ACS
                 National Meeting on March 13, 2005
NEWS  20 FEB 28  PATDPAFULL - New display fields provide for legal status
                 data from INPADOC
NEWS  21 FEB 28  BABS - Current-awareness alerts (SDIs) available
NEWS  22 FEB 28  MEDLINE/LMEDLINE reloaded
NEWS  23 MAR 02  GBFULL: New full-text patent database on STN
NEWS  24 MAR 03  REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS  25 MAR 03  MEDLINE file segment of TOXCENTER reloaded

NEWS EXPRESS  JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
              MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

NEWS HOURS    STN Operating Hours Plus Help Desk Availability
NEWS INTER    General Internet Information
NEWS LOGIN    Welcome Banner and News Items
NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
NEWS WWW      CAS World Wide Web Site (general information)
```

Enter NEWS followed by the item number or name to see news on that specific topic.

of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 08:24:05 ON 22 MAR 2005

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 08:24:23 ON 22 MAR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 20 MAR 2005 HIGHEST RN 845957-95-1
DICTIONARY FILE UPDATES: 20 MAR 2005 HIGHEST RN 845957-95-1

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

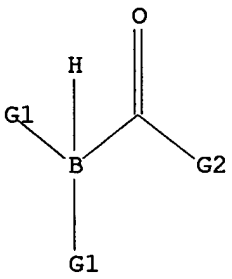
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10089036\10089036 clm 10 genus.str

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 C,H,N

G2 O,N

Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam
SAMPLE SEARCH INITIATED 08:24:46 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 746 TO ITERATE

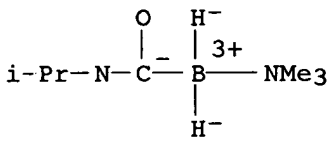
100.0% PROCESSED 746 ITERATIONS 39 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 13282 TO 16558
PROJECTED ANSWERS: 406 TO 1154

L2 39 SEA SSS SAM L1

=> d scan

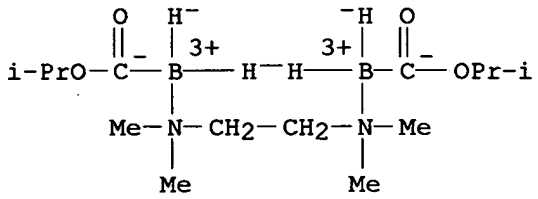
L2 39 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Boron, (N,N-dimethylmethanamine)dihydro[[(1-methylethyl)amino]carbonyl]-, (T-4)- (9CI)
MF C7 H19 B N2 O
CI CCS



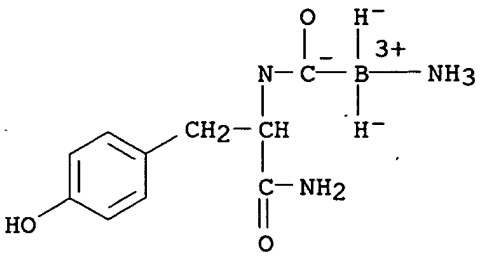
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L2 39 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Boron, tetrahydrobis[(1-methylethoxy)carbonyl][μ-[N,N,N',N'-tetramethyl-1,2-ethanediamine-N:N']]di- (9CI)
MF C14 H34 B2 N2 O4
CI CCS

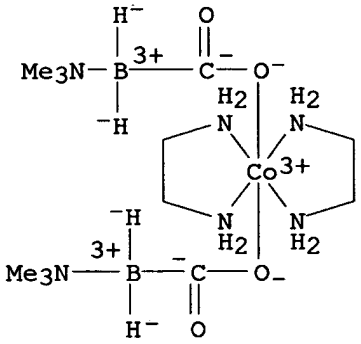


L2 39 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Boron, [[[(1S)-2-amino-1-[(4-hydroxyphenyl)methyl]-2-oxoethyl]amino]carbonyl]amminedihydro-, (T-4)- (9CI)
MF C10 H16 B N3 O3
CI CCS

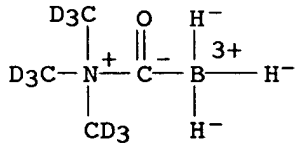


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

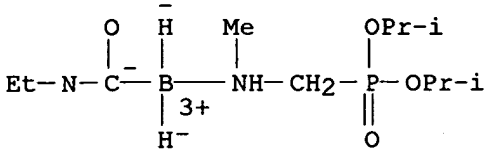
L2 39 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Cobalt(1+), bis[μ-(carboxylato-κC:κO)]bis[(N,N-dimethylmethanamine)dihydroboron]bis(1,2-ethanediamine-κN,κN')-, stereoisomer (9CI)
MF C12 H38 B2 Co N6 O4
CI CCS, COM



L2 39 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Boron, [N,N-di(methyl-d3)methan-d3-aminium η-oxomethylide]trihydro-(9CI)
MF C4 H3 B D9 N O
CI CCS

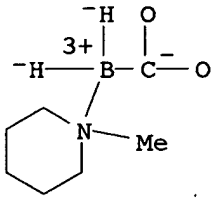


L2 39 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Boron, [bis(1-methylethyl) [(methylamino)methyl]phosphonate-N][(ethylamino)carbonyl]dihydro-, (T-4)- (9CI)
MF C11 H28 B N2 O4 P
CI CCS



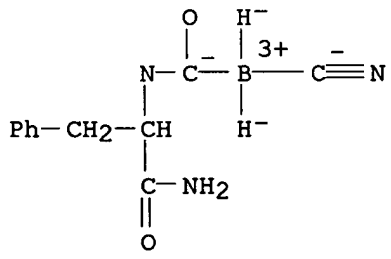
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L2 39 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Borate(1-), (carboxylato)dihydro(1-methylpiperidine)-, hydrogen, (T-4)- (9CI)
MF C7 H15 B N O2 . H
CI CCS



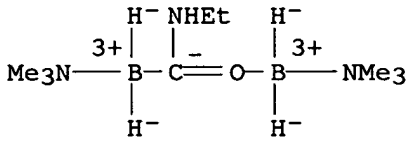
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L2 39 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Boron, [[[(1S)-2-amino-2-oxo-1-(phenylmethyl)ethyl]amino]carbonyl](cyano-κC)dihydro-, (T-4)- (9CI)
MF C11 H13 B N3 O2
CI CCS

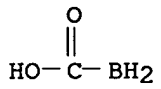


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

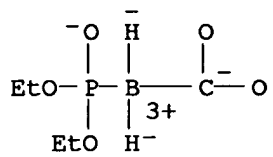
L2 39 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Boron(1+), bis(N,N-dimethylmethanamine)[μ-[(ethylamino)carbonyl-C:O]]tetrahydrodi- (9CI)
MF C9 H28 B2 N3 O
CI CCS, COM



L2 39 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Boranecarboxylic acid (9CI)
MF C H3 B O2
CI COM



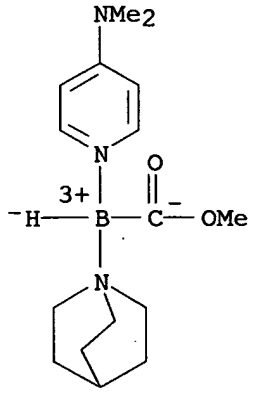
L2 39 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Borate(2-), (carboxylato)(diethyl phosphito-P)dihydro-, sodium hydrogen, (T-4)- (9CI)
MF C5 H12 B O5 P . H . Na
CI CCS



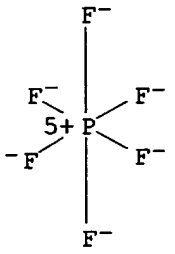
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L2 39 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Boron(1+), (1-azabicyclo[2.2.2]octane)(N,N-dimethyl-4-pyridinamine-N1)hydro(methoxycarbonyl)-, (T-4)-, hexafluorophosphate(1-) (9CI)
MF C16 H27 B N3 O2 . F6 P

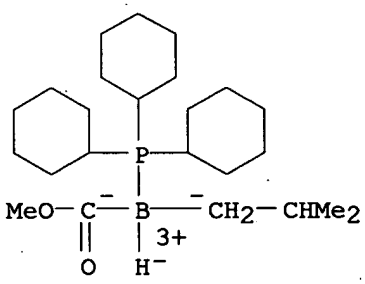
CM 1



CM 2

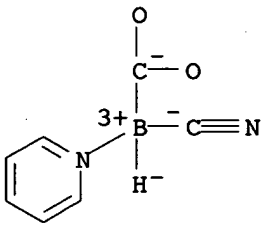


L2 39 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Boron, hydro(methoxycarbonyl)(2-methylpropyl)(tricyclohexylphosphine)-, (T-4)- (9CI)
MF C24 H46 B O2 P
CI CCS



L2 39 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

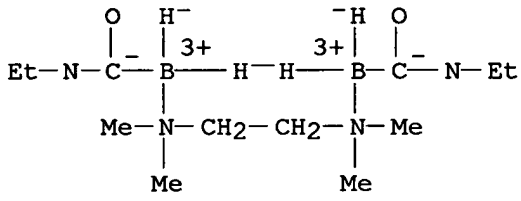
IN Borate(1-), (carboxylato)(cyano-κC)hydro(methylpyridine)- (9CI)
MF C8 H8 B N2 O2
CI CCS, IDS, COM



D1—Me

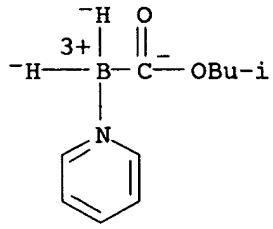
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L2 39 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Boron, bis[(ethylamino)carbonyl]tetrahydro[μ-(N,N,N',N'-tetramethyl-1,2-ethanediamine-N:N')]di- (9CI)
MF C12 H32 B2 N4 O2
CI CCS



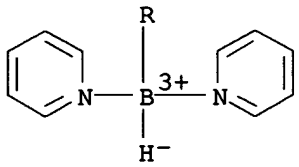
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

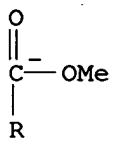
L2 39 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Boron, dihydro[(2-methylpropoxy)carbonyl](pyridine)-, (T-4)- (9CI)
MF C10 H16 B N O2
CI CCS



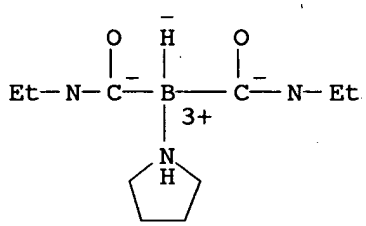
L2 39 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN Boron(1+), hydro(methoxycarbonyl)bis(pyridine)-, bromide, (T-4)- (9CI)
MF C12 H14 B N2 O2 . Br
CI CCS



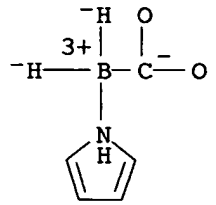


L2 39 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Boron, bis[(ethylamino)carbonyl]hydro(pyrrolidine)-, (T-4)- (9CI)
MF C10 H22 B N3 O2
CI CCS



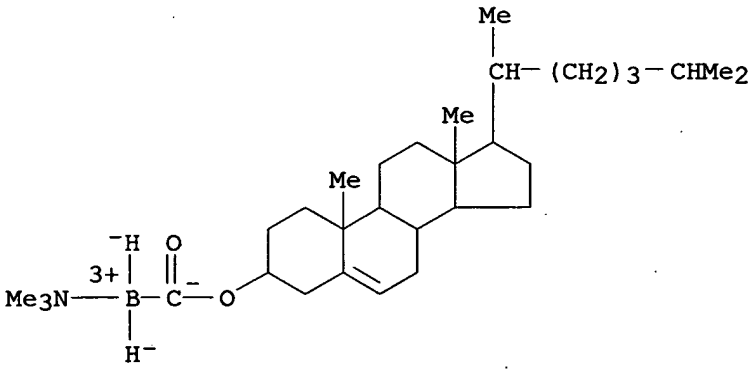
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L2 39 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Borate(1-), (carboxylato)dihydro(1H-pyrrole)-, (T-4)- (9CI)
MF C5 H7 B N O2
CI CCS, COM

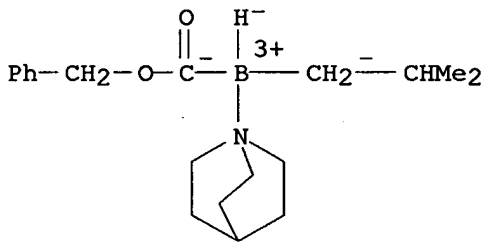


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L2 39 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Boron, [[[(3β)-cholest-5-en-3-yl]oxy]carbonyl](N,N-dimethylmethanamine)dihydro-, (T-4)- (9CI)
MF C31 H56 B N O2
CI CCS



L2 39 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Boron, (1-azabicyclo[2.2.2]octane)hydro(2-methylpropyl)[(phenylmethoxy)carbonyl]-, (T-4)- (9CI)
MF C19 H30 B N O2
CI CCS



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> search l1 sss full
FULL SEARCH INITIATED 08:26:26 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 14571 TO ITERATE

100.0% PROCESSED 14571 ITERATIONS 662 ANSWERS
SEARCH TIME: 00.00.01

L3 662 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL

	ENTRY	SESSION
FULL ESTIMATED COST	162.62	162.83

FILE 'CAPLUS' ENTERED AT 08:26:32 ON 22 MAR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 22 Mar 2005 VOL 142 ISS 13
FILE LAST UPDATED: 21 Mar 2005 (20050321/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> l3
L4          177 L3

=> carbonyl complex
         160730 CARBONYL
          26828 CARBONYLS
         168702 CARBONYL
                (CARBONYL OR CARBONYLS)
        1187533 COMPLEX
         680799 COMPLEXES
        1463808 COMPLEX
                (COMPLEX OR COMPLEXES)
L5        14200 CARBONYL COMPLEX
                (CARBONYL(W)COMPLEX)

=> l4 and l5
L6            6 L4 AND L5

=> d l6 1-6 ti

L6   ANSWER 1 OF 6  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Cyclopentadienyl tricarbonyl complexes of 99mTc for the in vivo imaging of
     the serotonin 5-HT1A receptor in the brain

L6   ANSWER 2 OF 6  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Steps toward High Specific Activity Labeling of Biomolecules for
     Therapeutic Application: Preparation of Precursor [188Re(H2O)3(CO)3]+ and
     Synthesis of Tailor-Made Bifunctional Ligand Systems

L6   ANSWER 3 OF 6  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Characterization of a novel 99mTc-carbonyl complex as
     a functional probe of MDR1 P-glycoprotein transport activity

L6   ANSWER 4 OF 6  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Aqueous one-pot synthesis of derivatized cyclopentadienyl-tricarbonyl
     complexes of 99mTc with an in situ CO source: Application to a
```

serotonergic receptor ligand

L6 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN
TI Carbon monoxide source for preparation of transition metal **carbonyl complexes**

L6 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN
TI Synthesis and Properties of Boranocarbonate: A Convenient in Situ CO Source for the Aqueous Preparation of [99mTc(OH2)3(CO)3]+

=> d l6 1-6 ti fbib abs

L6 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN
TI Cyclopentadienyl tricarbonyl complexes of 99mTc for the in vivo imaging of the serotonin 5-HT1A receptor in the brain
AN 2004:1049007 CAPLUS
DN 142:134693
TI Cyclopentadienyl tricarbonyl complexes of 99mTc for the in vivo imaging of the serotonin 5-HT1A receptor in the brain
AU Saidi, M.; Seifert, S.; Kretzschmar, M.; Bergmann, R.; Pietzsch, H.-J.
CS Centre National des Sciences et Technologies Nucleaires, Tunis, Tunisia
SO Journal of Organometallic Chemistry (2004), 689(25), 4739-4744
CODEN: JORCAI; ISSN: 0022-328X
PB Elsevier B.V.
DT Journal
LA English
AB Technetium and rhenium tricarbonyl complexes with derivatized cyclopentadienyl ligands were prepared starting from pertechnetate and an appropriate ferrocene ligand. Furthermore, the complexes (M(CO)3L, L = (N-methylpiperidin-4-yloxycarbonyl)cyclopentadienyl, M = Tc, Re; R = Me, isopropyl) were obtained starting from the precursor complexes [99mTc(CO)3(H2O)3]+ and [Re(CO)3Br3]2-. Their chemical identity was confirmed by chromatog. methods and electron spray mass spectrometry. The biodistribution of the 99mTc complexes (cytectrene I and cytectrene II) in Wistar rats was studied. Both compds. showed high uptake in the brain and fast blood clearance. The pattern of regional distribution in the brain demonstrated in autoradiog. studies indicated binding to the 5-HT1A and α1 adrenergic receptors.
RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN
TI Steps toward High Specific Activity Labeling of Biomolecules for Therapeutic Application: Preparation of Precursor [188Re(H2O)3(CO)3]+ and Synthesis of Tailor-Made Bifunctional Ligand Systems
AN 2002:350702 CAPLUS
DN 137:98837
TI Steps toward High Specific Activity Labeling of Biomolecules for Therapeutic Application: Preparation of Precursor [188Re(H2O)3(CO)3]+ and Synthesis of Tailor-Made Bifunctional Ligand Systems
AU Schibli, Roger; Schwarzbach, Rolf; Alberto, Roger; Ortner, Kirstin; Schmalle, Helmut; Dumas, Cecile; Egli, Andre; Schubiger, P. August
CS Center for Radiopharmaceutical Science, Paul Scherrer Institute, Villigen PSI, CH-5232, Switz.
SO Bioconjugate Chemistry (2002), 13(4), 750-756
CODEN: BCCHES; ISSN: 1043-1802
PB American Chemical Society
DT Journal
LA English
AB Two kit prepns. of the organometallic precursor [188Re(H2O)3(CO)3]+ in aqueous media are presented. Method A uses gaseous carbon monoxide and amine

borane (BH3·NH3) as the reducing agent. In method B CO(g) is replaced by K2[H3BCO2] that releases carbon monoxide during hydrolysis. Both procedures afford the desired precursor in yields >85% after 10 min at 60 °C. HPLC and TLC analyses revealed 7 ± 3% of unreacted 188ReO4- and <5% of colloidal 188ReO2. Solns. of up to 14 GBq/mL Re-188 have been successfully carbonylated with these two methods. The syntheses of two tailor-made bifunctional ligand systems for the precursor [188Re(H2O)3(CO)3]+ are presented. The tridentate chelates consist of a bis[imidazol-2-yl]methylamine or an iminodiacetic acid moiety, resp. Both types of ligand systems have been prepared with alkyl spacers of different length and a pendent primary amino or carboxylic acid functionality, enabling the amidic linkage to biomols. The tridentate coordination of the ligands to the rhenium-tricarbonyl core could be elucidated on the macroscopic level by X-ray structure analyses and 1D and 2D NMR expts. of two representative model complexes. On the nca level, the ligands allow labeling yields >95% with [188Re(H2O)3(CO)3]+ under mild reaction conditions (PBS buffer, 60 °C, 60 min) at ligand concns. between 5 + 10-4 M and 5 + 10-5 M. Thus, specific activities of 22-220 GBq per μmol of ligand could be achieved. Incubation of the corresponding Re-188 complexes in human serum at 37 °C revealed stabilities between 80 ± 4% and 45 ± 10% at 24 h, resp., and 63 ± 3% and 34 ± 3% at 48 h postincubation in human serum depending on the chelating system. Decomposition product was mainly 188ReO4-. The routine kit-preparation of the precursor [188Re(H2O)3(CO)3]+ in combination with tailor-made ligand systems enables the organometallic labeling of biomols. with unprecedented high specific activities.

RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN
TI Characterization of a novel 99mTc-**carbonyl complex** as a functional probe of MDR1 P-glycoprotein transport activity
AN 2002:75236 CAPLUS
DN 137:290959
TI Characterization of a novel 99mTc-**carbonyl complex** as a functional probe of MDR1 P-glycoprotein transport activity
AU Dyszlewski, Mary; Blake, Helen M.; Dahlheimer, Julie L.; Pica, Christina M.; Piwnica-Worms, David
CS Washington University School of Medicine, St. Louis, MO, 63110, USA
SO Molecular Imaging (2002), 1(1), 24-35
CODEN: MIOMBP; ISSN: 1535-3508
PB MIT Press
DT Journal
LA English
AB Multidrug resistance (MDR) mediated by overexpression of MDR1 P-glycoprotein (Pgp) is one of the best characterized barriers to chemotherapy in cancer patients. Furthermore, the protective function of Pgp-mediated efflux of xenobiotics in various organs has a profound effect on the bioavailability of drugs in general. Thus, there is an expanding requirement to noninvasively interrogate Pgp transport activity in vivo. We herein report the Pgp recognition properties of a novel 99mTc(I)-tricarbonyl complex, [99mTc(CO)3(MIBI)3]+ (Tc-CO-MIBI). Tc-CO-MIBI showed 60-fold higher accumulation in drug-sensitive KB 3-1 cells compared to colchicine-selected drug-resistant KB 8-5 cells. In KB 8-5 cells, tracer enhancement was observed with the potent MDR modulator LY335979 (EC50 = 62 nM). Similar behavior was observed using drug-sensitive MCF-7 breast adenocarcinoma cells and MCF-7/MDR1 stable transfectants, confirming that Tc-CO-MIBI is specifically excluded by over-expression of MDR1 Pgp. By comparison, net accumulation in control H69 lung tumor cells was 9-fold higher than in MDR-associated protein (MRP1)-expressing H69AR cells, indicating only modest transport by MRP1. Biodistribution anal. following tail vein injection of Tc-CO-MIBI showed delayed liver clearance

as well as enhanced brain uptake and retention in mdr1a/1b(-/-) gene deleted mice vs. wild-type mice, directly demonstrating that Tc-CO-MIBI is a functional probe of Pgp transport activity in vivo.

RE.CNT 66 THERE ARE 66 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN
TI Aqueous one-pot synthesis of derivatized cyclopentadienyl-tricarbonyl complexes of 99mTc with an in situ CO source: Application to a serotonergic receptor ligand
AN 2001:665984 CAPLUS
DN 136:6092
TI Aqueous one-pot synthesis of derivatized cyclopentadienyl-tricarbonyl complexes of 99mTc with an in situ CO source: Application to a serotonergic receptor ligand
AU Wald, Joachim; Alberto, Roger; Ortner, Kirstin; Candreia, Lukas
CS Institute of Inorganic Chemistry, University of Zurich, Zurich, 8057, Switz.
SO Angewandte Chemie, International Edition (2001), 40(16), 3062-3066
CODEN: ACIEF5; ISSN: 1433-7851
PB Wiley-VCH Verlag GmbH
DT Journal
LA English
OS CASREACT 136:6092
AB The authors demonstrated that half-sandwich complexes [(RCp)M(CO)3] (M = Re, 99mTc; R = MeCO, PhCO, o-MeOC6H4QCH2CO (Q = piperazine-1,4-diyl)) can easily be synthesized if the acid dissociation constant of the cyclopentadiene ring is increased. E.g., the reaction of acetylcyclopentadiene and derivs. with fac-[99mTc(OH2)3(CO)3]+ directly yielded the radiopharmaceutically relevant complexes [(RCp)99mTc(CO)3] (R = MeCO, o-MeOC6H4QCH2CO (Q = piperazine-1,4-diyl)) in good yields. The major impact of this work emerges from the general possibility of introducing the very small and highly lipophilic [Cp99mTc(CO)3] moiety in a wide variety of small receptor-binding biomols. Also the direct reaction of acidic and water-soluble cyclopentadiene compds. with aqua ions could lead to interesting and novel species in aqueous organometallic chemical The prepared rhenium compds. (RCp)Re(CO)3 (R = PhCO (9), o-MeOC6H4QCH2CO (Q = piperazine-1,4-diyl) (10)) were crystallized and their structures were elucidated by x-ray studies.
RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN
TI Carbon monoxide source for preparation of transition metal **carbonyl complexes**
AN 2001:265426 CAPLUS
DN 134:289554
TI Carbon monoxide source for preparation of transition metal **carbonyl complexes**
IN Alberto, Roger Ariel
PA Mallinckrodt Inc., USA
SO PCT Int. Appl., 16 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001025243	A1	20010412	WO 2000-EP9856	20001005

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,

LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

			EP 1999-203254	A	19991005
CA 2385927	AA	20010412	CA 2000-2385927		20001005
			EP 1999-203254	A	19991005
			WO 2000-EP9856	W	20001005
EP 1218385	A1	20020703	EP 2000-972700		20001005

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL

			EP 1999-203254	A	19991005
			WO 2000-EP9856	W	20001005
JP 2003511334	T2	20030325	JP 2001-528187		20001005
			EP 1999-203254	A	19991005
			WO 2000-EP9856	W	20001005

OS CASREACT 134:289554; MARPAT 134:289554

AB The present invention relates to compds. that have a novel use as a carbon monoxide source and optionally as a reducing agent in the preparation of transition metal **carbonyl complexes**. The compds. are (X1)(X2)(X3)BC(O)Y where X1, X2 and X3 are the same or different and either a Lewis base or hydride and Y is a sigma donating group. The preparation of these compds. is described as is the use of H3BCO as a reducing agent. Thus, K2H3BCO2 was prepared by bubbling H3BCO through and ethanolic KOH solution K2H3BCO2 can be reacted with [99mTcO4]- to generate [99mTc(OH2)(CO)3]+.

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

TI Synthesis and Properties of Boranocarbonate: A Convenient in Situ CO Source for the Aqueous Preparation of [99mTc(OH2)3(CO)3]+

AN 2001:172533 CAPLUS

DN 134:375302

TI Synthesis and Properties of Boranocarbonate: A Convenient in Situ CO Source for the Aqueous Preparation of [99mTc(OH2)3(CO)3]+

AU Alberto, Roger; Ortner, Kirstin; Wheatley, Nigel; Schibli, Roger; Schubiger, August P.

CS Institute of Inorganic Chemistry, University of Zuerich, Zurich, CH-8057, Switz.

SO Journal of the American Chemical Society (2001), 123(13), 3135-3136
CODEN: JACSAT; ISSN: 0002-7863

PB American Chemical Society

DT Journal

LA English

OS CASREACT 134:375302

AB Using a boron-based carbonylating agent, [H3BCO2]- which acts as an in situ CO source and a reducing agent at the same time, an organometallic transition-metal complex [99mTc(OH2)3(CO)3]+ was feasibly prepared for the first time. K[H3BCO2] (2) was prepared from H3BCO and KOH in alc. Crystals of [K(cryptand)]H3BCO2H were obtained after dissoln. of 2 in a THF solution of 4,7,13,16,21,24-hexaoxa-1,10-diazabicyclo[8.8.8.]hexacosane. Aqueous solns. of 2 are strongly alkaline and quite stable toward heating, but the addition of a borate buffer allows the decomposition with half-lives in the order of tens of minutes. Kinetic measurements in buffered solns. show a second-order dependence of the rate of boranocarboxylate decomposition on proton decomposition Borane carbonyl is formed when boranocarbonate salts are treated with strong acids.

RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
=> carbonyl
        160730 CARBONYL
         26828 CARBONYLS
L7      168702 CARBONYL
                 (CARBONYL OR CARBONYLS)

=> l4 and l7
L8          21 L4 AND L7

=> l8n not l6
             2 L8N
L9           2 L8N NOT L6

=> l8 not l6
L10         15 L8 NOT L6

=> d l10 1-15 ti

L10  ANSWER 1 OF 15  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Synthesis and examination of amine-cyanocarboxyboranes, the boron analogs
     of α-cyanocarboxylic acids: X-ray structural study of the first
     lactam containing a boron atom in the lactam ring

L10  ANSWER 2 OF 15  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Preparation of Re(I)- and 99mTc(I)-Metallocarboranes in Water under Weakly
     Basic Reaction Conditions

L10  ANSWER 3 OF 15  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Synthesis of substituted-borane adducts of amines and amino acids. The
     crystal structure of pyridine-N-ethylcarbamoylborane

L10  ANSWER 4 OF 15  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   A novel approach to the syntheses of functionalized, water-soluble
     icosahedral carboranyl anions. Crystal structure of methyl
     N-[(trimethylamineboryl)carbonyl]-L-tyrosinate: a synthon for
     novel carboranylpeptides

L10  ANSWER 5 OF 15  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   The synthesis and antitumor activity of the sodium salt and copper (II)
     complex of N-[(trimethylamineboryl)-carbonyl]-L-phenylalanine
     methyl ester

L10  ANSWER 6 OF 15  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Synthesis and antitumor activity of boronated dipeptides containing
     aromatic amino acids

L10  ANSWER 7 OF 15  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   The pharmacological activities of the metabolites of N-
     [(trimethylamineboryl)-carbonyl]-L-phenylalanine methyl ester

L10  ANSWER 8 OF 15  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   The disposition, tissue distribution, and cellular transport of
     N-[[(trimethylamino)boryl]carbonyl]-L-phenylalanine methyl ester
     in CF1 mice

L10  ANSWER 9 OF 15  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Antineoplastic activity of boron-containing thymidine nucleosides in
     Tmolt3 leukemic cells
```

L10 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
TI The effects of boron-containing peptides on L1210 lymphoid leukemia metabolism

L10 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
TI Synthesis of [14C]-N-[(trimethylamineboryl)**carbonyl**]phenylalanine methyl ester

L10 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
TI A new and convenient synthesis of sodium carboxylatotrihydroborate (Na2BH3CO2) a boron analog of sodium acetate

L10 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
TI Geometry changes induced by negative hyperconjugative interactions involving **carbonyl** and thiocarbonyl groups

L10 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
TI Predictive schemes for the reactivity of borane **carbonyl** and the stability of carbonyltrihydroborate anions, BH3C(O)X-

L10 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
TI A theoretical study of substituted CHNO isomers

=> d l10 14 ti fbib abs

L10 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
TI Predictive schemes for the reactivity of borane **carbonyl** and the stability of carbonyltrihydroborate anions, BH3C(O)X-
AN 1984:174885 CAPLUS
DN 100:174885
TI Predictive schemes for the reactivity of borane **carbonyl** and the stability of carbonyltrihydroborate anions, BH3C(O)X-
AU Spielvogel, Bernard F.; McPhail, Andrew T.; Knight, Jimmy A.; Moreland, Charles G.; Gatchell, Catherine L.; Morse, Karen W.
CS Paul M. Gross Chem. Lab., Duke Univ., Durham, NC, 27706, USA
SO Polyhedron (1983), 2(12), 1345-52
CODEN: PLYHDE; ISSN: 0277-5387
DT Journal
LA English
OS CASREACT 100:174885
AB The reactivity of borane **carbonyl** (BH3CO) and its isoelectronic counterpart the acetylium cation (CH3CO+) are compared resulting in the formulation of (**carbonyl**)trihydroborate anions, BH3C(O)X-, which are isoelectronic and isostructural with organic **carbonyls**. By analogy with the ease of reduction of organic **carbonyl** compds. by hydroborate, the relative stability towards self-reduction-oxidation (hydride transfer from B to **carbonyl** C) in BH3C(O)X- is proposed. The postulated order, with increasing stability is: BH3C(O)Cl- < BH3C(O)H- < BH3C(O)R- < BH3C(O)OR- < BH3C(O)NR2- < BH3C(O)2-. Exptl. results of this study together with known chemical are consistent with the proposed order. Further, it is suggested that a similar predictive scheme may be applicable to the chemical of the aminecarboxyboranes (B analogs of α-amino acids) and their derivs.

=> save temp 14 boranecarbonyls/a
BORANECARBONYLS/A IS NOT A VALID SAVED NAME
Enter the name you wish to use for the saved query,
answer set, or L-number list. The name must:
1. Begin with a letter,
2. Have 1-12 characters,

```
  3. Contain only letters (A-Z) and numbers (0-9),
  4. End with /Q for a query (search profile,
     structure, or screen set), /A for an answer
     set, or /L for an L-number list.
  5. Not already be in use as a saved name,
  6. Not be END, SAV, SAVE, SAVED
  7. Not have the form of an L-number (Lnnn).
ENTER NAME OR (END):save temp l4 boranes/a
SAVE TEMP L4 BORANES/A IS NOT A VALID SAVED NAME
Enter the name you wish to use for the saved query,
answer set, or L-number list.  The name must:
  1. Begin with a letter,
  2. Have 1-12 characters,
  3. Contain only letters (A-Z) and numbers (0-9),
  4. End with /Q for a query (search profile,
     structure, or screen set), /A for an answer
     set, or /L for an L-number list.
  5. Not already be in use as a saved name,
  6. Not be END, SAV, SAVE, SAVED
  7. Not have the form of an L-number (Lnnn).
ENTER NAME OR (END):end

=> save temp l4 boranes/a
ANSWER SET L4 HAS BEEN SAVED AS 'BORANES/A'

=> d his

     (FILE 'HOME' ENTERED AT 08:24:05 ON 22 MAR 2005)

     FILE 'REGISTRY' ENTERED AT 08:24:23 ON 22 MAR 2005
L1              STRUCTURE UPLOADED
L2           39 SEARCH L1 SSS SAM
L3          662 SEARCH L1 SSS FULL

     FILE 'CAPLUS' ENTERED AT 08:26:32 ON 22 MAR 2005
L4          177 L3
L5        14200 CARBONYL COMPLEX
L6            6 L4 AND L5
L7       168702 CARBONYL
L8           21 L4 AND L7
L9            2 L8N NOT L6
L10          15 L8 NOT L6
                SAVE TEMP L4 BORANES/A

=> logoff hold
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      37.78     200.61

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -5.11      -5.11

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 08:33:07 ON 22 MAR 2005

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x
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LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 08:36:51 ON 22 MAR 2005
FILE 'CAPLUS' ENTERED AT 08:36:51 ON 22 MAR 2005
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      37.78     200.61

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -5.11      -5.11

=> save temp all boransrch/l
L# LIST L1-L10 HAS BEEN SAVED AS 'BORANSRCH/L'

=> logoff hold
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      38.23     201.06

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -5.11      -5.11

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 08:37:18 ON 22 MAR 2005

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 08:48:03 ON 22 MAR 2005
FILE 'CAPLUS' ENTERED AT 08:48:03 ON 22 MAR 2005
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      38.23     201.06

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -5.11      -5.11

=> d his

     (FILE 'HOME' ENTERED AT 08:24:05 ON 22 MAR 2005)

     FILE 'REGISTRY' ENTERED AT 08:24:23 ON 22 MAR 2005
L1                STRUCTURE UPLOADED
L2             39 SEARCH L1 SSS SAM
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L3          662 SEARCH L1 SSS FULL

     FILE 'CAPLUS' ENTERED AT 08:26:32 ON 22 MAR 2005
L4          177 L3
L5        14200 CARBONYL COMPLEX
L6            6 L4 AND L5
L7       168702 CARBONYL
L8           21 L4 AND L7
L9            2 L8N NOT L6
L10          15 L8 NOT L6
                SAVE TEMP L4 BORANES/A
                SAVE TEMP ALL BORANSRCH/L

=> transition
        876402 TRANSITION
        243911 TRANSITIONS
L11     982874 TRANSITION
                (TRANSITION OR TRANSITIONS)

=> l4 and l11
L12           6 L4 AND L11

=> l12 not l6
L13           4 L12 NOT L6

=> d l13 1-4 ti

L13  ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Investigation of mixtures of cholesteryl esters of boron analogs of amino
     acids with p-azoxyanisole

L13  ANSWER 2 OF 4  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   A theoretical study of substituted CHNO isomers

L13  ANSWER 3 OF 4  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Transition-metal-(carboxylato)trihydroborate complexes:  copper
     and silver triphenylphosphine complexes of H3BCO2R- (R = hydrogen, methyl,
     ethyl)

L13  ANSWER 4 OF 4  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Boron hydride fragments as coordinating ligands


=> d lk13 3,4 ti fbib abs
'LK13' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS --------- GI and AB
ALL --------- BIB, AB, IND, RE
APPS -------- AI, PRAI
BIB --------- AN, plus Bibliographic Data and PI table (default)
CAN --------- List of CA abstract numbers without answer numbers
CBIB -------- AN, plus Compressed Bibliographic Data
DALL -------- ALL, delimited (end of each field identified)
DMAX -------- MAX, delimited for post-processing
FAM --------- AN, PI and PRAI in table, plus Patent Family data
FBIB -------- AN, BIB, plus Patent FAM
IND --------- Indexing data
IPC --------- International Patent Classifications
MAX --------- ALL, plus Patent FAM, RE
PATS -------- PI, SO
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SAM --------- CC, SX, TI, ST, IT
SCAN -------- CC, SX, TI, ST, IT (random display, no answer numbers;
SCAN must be entered on the same line as the DISPLAY,
e.g., D SCAN or DISPLAY SCAN)
STD --------- BIB, IPC, and NCL

IABS -------- ABS, indented with text labels
IALL -------- ALL, indented with text labels
IBIB -------- BIB, indented with text labels
IMAX -------- MAX, indented with text labels
ISTD -------- STD, indented with text labels

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

HIT --------- Fields containing hit terms
HITIND ------ IC, ICA, ICI, NCL, CC and index field (ST and IT)
containing hit terms
HITRN ------- HIT RN and its text modification
HITSTR ------ HIT RN, its text modification, its CA index name, and
its structure diagram
HITSEQ ------ HIT RN, its text modification, its CA index name, its
structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and
its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
structure diagram, plus NTE and SEQ fields
KWIC -------- Hit term plus 20 words on either side
OCC --------- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.
ENTER DISPLAY FORMAT (BIB):end

=> d l13 3,4 ti fbib abs

L13 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
TI **Transition**-metal-(carboxylato)trihydroborate complexes: copper and silver triphenylphosphine complexes of H3BCO2R- (R = hydrogen, methyl, ethyl)
AN 1979:132016 CAPLUS
DN 90:132016
TI **Transition**-metal-(carboxylato)trihydroborate complexes: copper and silver triphenylphosphine complexes of H3BCO2R- (R = hydrogen, methyl, ethyl)
AU Bommer, Jerry C.; Morse, Karen W.
CS Dep. Chem. Biochem., Utah State Univ., Logan, UT, USA
SO Inorganic Chemistry (1979), 18(3), 531-8
CODEN: INOCAJ; ISSN: 0020-1669
DT Journal
LA English

AB The preparation and characterization of some Cu and Ag complexes of PPh3 and of the (carboxy)trihydroborate derivs. [H3BCO2R]- (R = H, Me, Et) are reported. Isolated are stable crystalline complexes of composition (Ph3P)nM(H3BCO2R) (n = 2, 3; M = Cu, R = Et, Me, H; M = Ag, R = Et, H). Results of spectral (IR, NMR), osmometric, and conductivity studies are discussed in terms of the mol. structures of the complexes; possible factors affecting the bidentate or monodentate mode of coordination by the anion are discussed.

L13 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
TI Boron hydride fragments as coordinating ligands
AN 1967:101167 CAPLUS
DN 66:101167
TI Boron hydride fragments as coordinating ligands
AU Parry, Robert W.; Malone, Leo J., Jr.; Morse, Karen W.
CS Univ. of Michigan, Ann Arbor, MI, USA
SO Proc. Int. Conf. Coord. Chem., 8th (1964), 117-8
CODEN: 16IPAC
DT Conference
LA English
AB The BH3 group in the boranocarbamate anion can be considered as a carbamate ion in which one coordinated O atom is replaced by a BH3 group. This boranocarbamate ion can act as a ligand in forming coordination compds. with **transition** metal ions.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	49.40	212.23

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-6.57	-6.57

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 08:51:44 ON 22 MAR 2005

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	SEP 01	New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS	4	OCT 28	KOREAPAT now available on STN
NEWS	5	NOV 30	PHAR reloaded with additional data
NEWS	6	DEC 01	LISA now available on STN
NEWS	7	DEC 09	12 databases to be removed from STN on December 31, 2004

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NEWS  8  DEC 15  MEDLINE update schedule for December 2004
NEWS  9  DEC 17  ELCOM reloaded; updating to resume; current-awareness
                 alerts (SDIs) affected
NEWS  10 DEC 17  COMPUAB reloaded; updating to resume; current-awareness
                 alerts (SDIs) affected
NEWS  11 DEC 17  SOLIDSTATE reloaded; updating to resume; current-awareness
                 alerts (SDIs) affected
NEWS  12 DEC 17  CERAB reloaded; updating to resume; current-awareness
                 alerts (SDIs) affected
NEWS  13 DEC 17  THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
NEWS  14 DEC 30  EPFULL: New patent full text database to be available on STN
NEWS  15 DEC 30  CAPLUS - PATENT COVERAGE EXPANDED
NEWS  16 JAN 03  No connect-hour charges in EPFULL during January and
                 February 2005
NEWS  17 FEB 25  CA/CAPLUS - Russian Agency for Patents and Trademarks
                 (ROSPATENT) added to list of core patent offices covered
NEWS  18 FEB 10  STN Patent Forums to be held in March 2005
NEWS  19 FEB 16  STN User Update to be held in conjunction with the 229th ACS
                 National Meeting on March 13, 2005
NEWS  20 FEB 28  PATDPAFULL - New display fields provide for legal status
                 data from INPADOC
NEWS  21 FEB 28  BABS - Current-awareness alerts (SDIs) available
NEWS  22 FEB 28  MEDLINE/LMEDLINE reloaded
NEWS  23 MAR 02  GBFULL: New full-text patent database on STN
NEWS  24 MAR 03  REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS  25 MAR 03  MEDLINE file segment of TOXCENTER reloaded

NEWS EXPRESS  JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
              MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

NEWS HOURS    STN Operating Hours Plus Help Desk Availability
NEWS INTER    General Internet Information
NEWS LOGIN    Welcome Banner and News Items
NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
NEWS WWW      CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
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FILE 'HOME' ENTERED AT 13:10:14 ON 22 MAR 2005

=> FIL STNGUIDE
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Mar 18, 2005 (20050318/UP).
```

```
=> DIS SAVED
NAME             CREATED      NOTES/TITLE
--------------   -----------  -----------------------------------
BORANES/A        TEMP         177 ANSWERS IN FILE CAPLUS
BORANSRCH/L      TEMP         10 L-NUMBERS
HAINTERVEN/A     TEMP         26 ANSWERS IN FILE CAPLUS
OXIDPROD/A       TEMP         11264 ANSWERS IN FILE CAPLUS
PCTSRCH/L        TEMP         28 L-NUMBERS
PGDTXACMPDS/A    TEMP         17 ANSWERS IN FILE CAPLUS
TETRAENESRAW/A   TEMP         128 ANSWERS IN FILE REGISTRY
TWOAMINOPOLY/Q   16 APR 2001  UPLOADED STRUCTURE


=> DIS SAVED/S
NO SAVED SDI REQUESTS


=> FIL CAPLUS
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.06       0.27

FILE 'CAPLUS' ENTERED AT 13:10:54 ON 22 MAR 2005
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FILE COVERS 1907 - 22 Mar 2005  VOL 142 ISS 13
FILE LAST UPDATED: 21 Mar 2005  (20050321/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.


=> ACT BORANES/A
L1              STR
L2  (       662)SEA FILE=REGISTRY SSS FUL L1
L3          177 SEA FILE=CAPLUS ABB=ON  PLU=ON  L2

=> FIL STNGUIDE
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.45       0.72

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FILE CONTAINS CURRENT INFORMATION.
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LAST RELOADED: Mar 18, 2005 (20050318/UP).

=> ACT BORANSRCH/L
L4                STR
L5   (         39)SEA FILE=REGISTRY SSS SAM L4
L6   (        662)SEA FILE=REGISTRY SSS FUL L4
L7   (        177)SEA FILE=CAPLUS ABB=ON  PLU=ON  L6
L8   (      14200)SEA FILE=CAPLUS ABB=ON  PLU=ON  CARBONYL COMPLEX
L9   (          6)SEA FILE=CAPLUS ABB=ON  PLU=ON  L7 AND L8
L10  (     168702)SEA FILE=CAPLUS ABB=ON  PLU=ON  CARBONYL
L11  (         21)SEA FILE=CAPLUS ABB=ON  PLU=ON  L7 AND L10
L12  (          2)SEA FILE=CAPLUS ABB=ON  PLU=ON  L8N NOT L9
L13  (         15)SEA FILE=CAPLUS ABB=ON  PLU=ON  L11 NOT L9

=> vanadium
               0 VANADIUM
L14            0 VANADIUM

=> chromium
               0 CHROMIUM
L15            0 CHROMIUM

=> molybdenum
               0 MOLYBDENUM
L16            0 MOLYBDENUM

=> tungsten
               0 TUNGSTEN
L17            0 TUNGSTEN

=> manganese
               0 MANGANESE
L18            0 MANGANESE

=> technetium
               0 TECHNETIUM
L19            0 TECHNETIUM

=> rhenium
               0 RHENIUM
L20            0 RHENIUM

=> iron
L21            2 IRON

=> file caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                               0.18       0.90

FILE 'CAPLUS' ENTERED AT 13:12:56 ON 22 MAR 2005
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FILE COVERS 1907 - 22 Mar 2005 VOL 142 ISS 13
FILE LAST UPDATED: 21 Mar 2005 (20050321/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> iron
        915161 IRON
         11283 IRONS
L22     915962 IRON
                 (IRON OR IRONS)

=> rhenium
         32916 RHENIUM
             8 RHENIUMS
L23      32916 RHENIUM
                 (RHENIUM OR RHENIUMS)

=> technetium
         16316 TECHNETIUM
             1 TECHNETIUMS
L24      16316 TECHNETIUM
                 (TECHNETIUM OR TECHNETIUMS)

=> manganese
        333709 MANGANESE
           106 MANGANESES
L25     333719 MANGANESE
                 (MANGANESE OR MANGANESES)

=> tungsten
        174051 TUNGSTEN
            29 TUNGSTENS
L26     174055 TUNGSTEN
                 (TUNGSTEN OR TUNGSTENS)

=> molybdenum
        213943 MOLYBDENUM
            33 MOLYBDENUMS
L27     213947 MOLYBDENUM
                 (MOLYBDENUM OR MOLYBDENUMS)

=> chromium
        340836 CHROMIUM
            72 CHROMIUMS
L28     340839 CHROMIUM
                 (CHROMIUM OR CHROMIUMS)

=> vanadium
        148094 VANADIUM
            28 VANADIUMS
L29     148098 VANADIUM
                 (VANADIUM OR VANADIUMS)

=> l22 or l23 or l24 or l25 or l26 or l27 or l28 or l29
L30    1673160 L22 OR L23 OR L24 OR L25 OR L26 OR L27 OR L28 OR L29
```

```
=> d his

     (FILE 'HOME' ENTERED AT 13:10:14 ON 22 MAR 2005)

     FILE 'STNGUIDE' ENTERED AT 13:10:25 ON 22 MAR 2005

     FILE 'CAPLUS' ENTERED AT 13:10:54 ON 22 MAR 2005
               ACT BORANES/A
              ---------
L1             STR
L2   (       662)SEA FILE=REGISTRY SSS FUL L1
L3           177 SEA FILE=CAPLUS ABB=ON  PLU=ON  L2
              ---------

     FILE 'STNGUIDE' ENTERED AT 13:10:56 ON 22 MAR 2005
               ACT BORANSRCH/L
              ---------
L4             STR
L5   (        39)SEA FILE=REGISTRY SSS SAM L4
L6   (       662)SEA FILE=REGISTRY SSS FUL L4
L7   (       177)SEA FILE=CAPLUS ABB=ON  PLU=ON  L6
L8   (     14200)SEA FILE=CAPLUS ABB=ON  PLU=ON  CARBONYL COMPLEX
L9   (         6)SEA FILE=CAPLUS ABB=ON  PLU=ON  L7 AND L8
L10  (    168702)SEA FILE=CAPLUS ABB=ON  PLU=ON  CARBONYL
L11  (        21)SEA FILE=CAPLUS ABB=ON  PLU=ON  L7 AND L10
L12  (         2)SEA FILE=CAPLUS ABB=ON  PLU=ON  L8N NOT L9
L13  (        15)SEA FILE=CAPLUS ABB=ON  PLU=ON  L11 NOT L9
              ---------
L14            0 VANADIUM
L15            0 CHROMIUM
L16            0 MOLYBDENUM
L17            0 TUNGSTEN
L18            0 MANGANESE
L19            0 TECHNETIUM
L20            0 RHENIUM
L21            2 IRON

     FILE 'CAPLUS' ENTERED AT 13:12:56 ON 22 MAR 2005
L22       915962 IRON
L23        32916 RHENIUM
L24        16316 TECHNETIUM
L25       333719 MANGANESE
L26       174055 TUNGSTEN
L27       213947 MOLYBDENUM
L28       340839 CHROMIUM
L29       148098 VANADIUM
L30      1673160 L22 OR L23 OR L24 OR L25 OR L26 OR L27 OR L28 OR L29

=> l3 and l30
L31           10 L3 AND L30

=> d l31 1-10 ti

L31  ANSWER 1 OF 10  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Cyclopentadienyl tricarbonyl complexes of 99mTc for the in vivo imaging of
     the serotonin 5-HT1A receptor in the brain

L31  ANSWER 2 OF 10  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Preparation of Re(I)- and 99mTc(I)-Metallocarboranes in Water under Weakly
     Basic Reaction Conditions

L31  ANSWER 3 OF 10  CAPLUS  COPYRIGHT 2005 ACS on STN
```

TI Steps toward High Specific Activity Labeling of Biomolecules for Therapeutic Application: Preparation of Precursor [188Re(H2O)3(CO)3]+ and Synthesis of Tailor-Made Bifunctional Ligand Systems

L31 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
TI Characterization of a novel 99mTc-carbonyl complex as a functional probe of MDR1 P-glycoprotein transport activity

L31 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
TI Aqueous one-pot synthesis of derivatized cyclopentadienyl-tricarbonyl complexes of 99mTc with an in situ CO source: Application to a serotonergic receptor ligand

L31 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
TI Carbon monoxide source for preparation of transition metal carbonyl complexes

L31 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
TI Synthesis and Properties of Boranocarbonate: A Convenient in Situ CO Source for the Aqueous Preparation of [99mTc(OH2)3(CO)3]+

L31 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
TI Anti-osteoporotic activity of metal complexes of amine carboxyboranes

L31 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
TI The hypolipidemic activity of metal complexes of amine carboxyboranes in rodents

L31 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
TI Metal complexes containing the trimethylamine-carboxylatoborane ligand: synthesis and characterization of [M3O((CH3)3N.BH2CO2)6R3]+X- (M = Cr(III), Fe(III); R = H2O, CH3OH; X- = NO3-, Cl-)

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	21.47	22.37

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 13:17:20 ON 22 MAR 2005

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 13:24:27 ON 22 MAR 2005
FILE 'CAPLUS' ENTERED AT 13:24:27 ON 22 MAR 2005
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	21.47	22.37

=> save temp all boransrch/a

'BORANSRCH/A' CANNOT BE USED BECAUSE 'BORANSRCH/L' IS ALREADY SAVED
A saved item (query, answer set, L# list,
BATCH search request, or SDI profile) cannot be
replaced by an item of a different type by
entering the same name with a different qualifier
(/Q, /A, or /L). If you wish to reuse this name,
use the DELETE command to remove the old
definition. Then reissue the SAVE command.

=> save temp all boransrch/l
'BORANSRCH/L' IN USE
A single name cannot be used for two saved items at the same time.
Enter "Y" if you wish to replace the current saved name with a new
definition. Enter "N" if the current saved definition must be
preserved. You may then reenter the SAVE command with a different
saved name. Enter "DISPLAY SAVED" at an arrow prompt (=>) to see a
list of your currently defined saved names.
REPLACE OLD DEFINITION? Y/(N):y
L# LIST L1-L31 HAS BEEN SAVED AS 'BORANSRCH/L'

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	22.37	23.27

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 13:25:27 ON 22 MAR 2005